

ABSTRACT**IMAGING METHOD**

5 A method for imaging molecules contained in an array of discrete reaction sites on the surface of a solid support comprises:

 (i) imaging the array and detecting a first molecule located on the solid support at a known position with respect to the array;

 (ii) by reference to the first molecule, aligning inspection windows in registration
10 with the discrete reaction sites; and

 (iii) determining the amount of detectable signal in each window.

 The method is used to locate the reaction sites accurately on the array, and to correct for any misalignments.

11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100